

CONTENTS

Preface	vii
Theoretical progress in polymer adsorption, steric stabilization and flocculation G.J. Fleer, J.M.H.M. Scheutjens and M.A. Cohen Stuart (Wageningen, The Netherlands)	1
Extensions of the self-consistent field theory of polymer adsorption: matched asymptotic solution describing tails H.J. Ploehn and W.B. Russel (Princeton, NJ, U.S.A.)	31
The adsorption of random copolymers of vinyl acetate and ethylene on surface-modified silica particles T. Cosgrove, N. Finch, B. Vincent and J. Webster (Bristol, United Kingdom)	33
Block copolymer adsorption from micellar solutions A.P. Gast and M.R. Munch (Stanford, CA, U.S.A.)	47
Hydrodynamic layer thicknesses of various adsorbed polymers on precipitated silica and polystyrene latex E. Killmann, H. Maier and J.A. Baker (Garching, F.R.G.)	51
Variation of ellipsometric adsorbed polyelectrolyte layer thickness with potential M. Kawaguchi, K. Hayashi and A. Takahashi (Mie, Japan)	73
Structural changes within an adsorbed fibrinogen layer during the adsorption process: a study by scanning angle reflectometry P. Schaaf and Ph. Dejardin (Strasbourg, France)	89
Kinetics of polymer adsorption measured in situ at the solid-liquid interface: utility of the infrared total internal reflection method D.J. Kuzmenka and S. Granick (Urbana, IL, U.S.A.)	105
Polymer desorption by NMR T. Cosgrove (Bristol, United Kingdom)	117
Kinetics of adsorption and ion-exchange reactions during adsorption of cationic polyelectrolytes onto cellulosic fibers L. Wågberg, L. Ödberg, T. Lindström and R. Aksberg (Stockholm, Sweden)	119
Forces between model polypeptides and proteins adsorbed on mica surfaces T. Afshar-Rad, A.I. Bailey, P.F. Luckham, W. MacNaughtan and D. Chapman (London, United Kingdom)	125
Surface force measurements for poly-L-lysine: effect of ionic strength L.R. Dix, C. Toprakcioglu and R.J. Davies (Cambridge, United Kingdom)	147
Forces between surfaces bearing terminally-anchored polymer chains H.J. Taunton, C. Toprakcioglu (Cambridge, United Kingdom), L.J. Fetters (Annandale, NJ, U.S.A.) and J. Klein (Rehovot, Israel)	151
A simple model for forces between surfaces bearing grafted polymers applied to data on adsorbed block copolymers S. Patel, M. Tirrell (Minneapolis, MN, U.S.A.) and G. Hadziioannou (San Jose, CA, U.S.A.)	157
Forces between quartz surfaces bearing adsorbed macromolecules in good solvents Th. Götze and H. Sonntag (Berlin, G.D.R.)	181
Forces between adsorbed PVA layers S. Lubetkin (Bristol, United Kingdom)	203
Static and dynamic forces across polymer liquid films R. Horn (Canberra, Australia)	211
The effect of polymer bridging on the flocculation kinetics of colloidal dispersions F. Csempeš and S. Rohrsetzer (Budapest, Hungary)	215
Polymer adsorption and flocculation in sheared suspensions J. Gregory (London, United Kingdom)	231
Adsorption and flocculation behavior for systems of copolymers and particles of opposite charge F. Lafuma, T.K. Wang, G. Durand and R. Audebert (Paris, France)	255

Flocculation of cellular suspensions by polyelectrolytes	
A.A. Baran (Kiev, U.S.S.R.)	259
A novel method to study polymer interfacial dynamics	
M.A. Cohen Stuart and H. Tamai (Wageningen, The Netherlands)	265
Phase separation in dispersions of weakly-interacting particles in solutions of non-adsorbing polymer	
B. Vincent, J. Edwards, S. Emmett and R. Croot (Bristol, United Kingdom)	267
Adhesive hard sphere colloidal dispersions. III. Stickiness in n-dodecane and benzene	
P.W. Rouw, A. Vrij and C.G. de Kruif (Utrecht, The Netherlands)	299
Molecular details of the solvent induced flocculation of dilute sterically stabilised polymer colloids	
M.D. Croucher, M.A. Winnik (Mississauga, Canada) and L. Egan (Toronto, Canada)	311
Rheological investigation of depletion flocculation of concentrated sterically stabilised polystyrene latex dispersions	
C. Prestidge and Th.F. Tadros (Bracknell, United Kingdom)	325
Use of concentration profiles in creaming emulsions to determine phase coexistence	
D.J. Hibberd, A.M. Howe and M.M. Robins (Norwich, United Kingdom)	347
A mean field theory for the rheology of phase separated or flocculated dispersions	
P.D. Patel and W.B. Russel (Princeton, NJ, U.S.A.)	355
Polymer coatings with a destabilizing action on suspensions	
J. Laven, F.J. Huisman, L.J. Lalieu and H.N. Stein (Eindhoven, The Netherlands)	385
Author Index	407
Subject Index	409

